TM & IH

Tropical Medicine & International Health

Volume 13

Contents

Issue 1, January 2008

1 Feature page

2 Editorial: Implementation research to support the initiative on the elimination of kala azar from Bangladesh, India and Nepal – the challenges for diagnosis and treatment *S. Sundar, D. Mondal, S. Rijal, S. Bhattacharya, H. Ghalib, A. Kroeger, M. Boelaert, P. Desjeux, H. Richter-Airijoki and G. Harms*

6 Twenty-four-week safety and tolerability of nevirapine *vs.* abacavir in combination with zidovudine/lamivudine as first-line antiretroviral therapy: a randomized double-blind trial (NORA) *A.S. Walker*

17 Low prevalence of HIV and other sexually transmitted infections in young women attending a youth counselling service in Maputo, Mozambique *J. Melo, E. Folgosa, D. Manjate, N. Osman, I. Francois, M. Temmerman, P. Cappuccinelli and M.M. Colombo*

21 Measuring stigma associated with tuberculosis and HIV/AIDS in southern Thailand: exploratory and confirmatory factor analyses of two new scales *A. Van Rie, S. Sengupta, P. Pungrassami, Q. Balthip, S. Choonuan, Y. Kasetjaroen, R.P. Strauss and V. Chongsuvivatwong*

31 Epidemiology of meningococcal disease in southern Brazil from 1995 to 2003, and molecular characterization of *Neisseria meningitidis* using multilocus sequence typing *L.F. Baethgen, L. Weidlich, C. Moraes, C. Klein, L.S. Nunes, P.I. Cafrune, A.P. Lemos, S.S. Rios, M.F. Abreu, C. Kmetzsch, A.F. Sperb, L.W. Riley, M.L.R. Rossetti and A. Zaha*

41 Antimicrobial resistance surveillance among commensal *Escherichia coli* in rural and urban areas in Southern India *E. Mathai, S. Chandy, K. Thomas, B. Antoniswamy, I. Joseph, M. Mathai, T.L. Sorensen and K. Holloway*

46 Prevalence of hantavirus infection in wild *Rattus norvegicus* and *R. rattus* populations of Buenos Aires City, Argentina *G.R. Cueto, R. Cavia, C. Bellomo, P.J. Padula and O.V. Suárez*

52 Short Communication: A decade of Japanese encephalitis surveillance in Sarawak, Malaysia: 1997-2006 *S.C. Wong, M.H. Ooi, A.R. Abdullah, S.Y. Wong, S. Krishnan, P.H. Tio, P.C. Pek, B.F. Lai, A. Mohan, J. Muhi, A. Kiyu, M.T. Arif and M.J. Cardosa*

56 Insecticide-treated bednets to control dengue vectors: preliminary evidence from a controlled trial in Haiti *A. Lenhart, N. Orelus, R. Maskill, N. Alexander, T. Streit and P.J. McCall*

68 Tuberculous meningitis: does lowering the treatment threshold result in many more treated patients? *J. Moreira, F. Alarcon, Z. Bisoffi, J. Rivera, R. Salinas, J. Menten, G. Dueñas and J. Van den Ende*

76 Haptoglobin genotype, anaemia and malaria in Gambian children *S.E. Cox, C.P. Doherty, S.H. Atkinson, C.V. Nweneka, A.J.C. Fulford, G. Sirugo, K.A. Rockett, D.P. Kwiatkowski and A.M. Prentice*

83 Risk associated with asymptomatic parasitaemia occurring post-antimalarial treatment *P. Olliaro, L. Pinoges, F. Checchi, M. Vaillant and J.-P. Guthmann*

91 *Plasmodium vivax* resistance to chloroquine in Dawei, southern Myanmar *J.-P. Guthmann, A. Pittet, A. Lesage, M. Imwong, N. Lindegardh, M.M. Lwin, T. Zaw, A. Annerberg, X. de Radigués and F. Nosten*

99 Translation of artemether–lumefantrine treatment policy into paediatric clinical practice: an early experience from Kenya *D. Zurovac, J. Njogu, W. Akhwale, D.H. Hamer and R.W. Snow*

108 Household burden of malaria in South Africa and Mozambique: is there a catastrophic impact? *M. Castillo-Riquelme, D. McIntyre and K. Barnes*

123 Beyond symptom recognition: care-seeking for ill newborns in rural Ghana *A.N. Bazzano, B.R. Kirkwood, C. Tawiah-Agyemang, S. Owusu-Agyei and P.B. Adongo*

129 Ascertainment of childhood vaccination histories in northern Malawi *A. Jahn, S. Floyd, V. Mwinuka, J. Mwafilaso, D. Mwagomba, R.E. Mkisi, A. Katsulukuta, A. Khunga, A.C. Crampin, K. Branson, N. McGrath and P.E.M. Fine*

Issue 2, February 2008

139 Feature page

140 Editorial: Bridging community - based health insurance and social protection for health care – a step in the direction of universal coverage? *B. Jacobs, M. Bigdeli, M. van Pelt, P. Ir, C. Salze and B. Criel*

144 Review: Polymorphisms in HIV-1 subtype C proteases and the potential impact on protease inhibitors *P.O. Bessong*

152 The impact of HIV infection on adult mortality in some communities in Zambia: a cohort study *K. Dzekedzeke, S. Siziya and K. Fylkesnes*

162 The role of context: neighbourhood characteristics strongly influence HIV risk in young women in Ndola, Zambia *S. Gabrysch, T. Edwards and J.R. Glynn for the Study Group on hetrogeneity of HIV epidemics in African cities*

171 Antenatal clinic HIV data found to underestimate actual prevalence declines: evidence from Zambia *C. Michelo, I. Sandøy and K. Fylkesnes*

180 Association of atopy, asthma, allergic rhinoconjunctivitis, atopic dermatitis and intestinal helminth infections in Cuban children *M. Wördemann, R.J. Diaz, L.M. Heredia, A.M.C. Madurga, A.R. Espinosa, R.C. Prado, I.A. Millan, A. Escobedo, L.R. Rivero, B. Gryseels, M.B. Gorbea and K. Polman*

187 Short Communication: Effects of grinding surgical tissue specimens and smear staining methods on Buruli ulcer microscopic diagnosis *D. Affolabi, H. Bankolé, A. Ablordey, J. Hounnouga, P. Koutchakpo, G. Sopoh, J. Aguiar, A. Dossou, R.C. Johnson, S. Anagonou and F. Portaels*

191 Diagnosis of *Mycobacterium ulcerans* infection (Buruli ulcer) at a treatment centre in Ghana: a retrospective analysis of laboratory results of clinically diagnosed cases *E. Mensah-Quainoo, D. Yeboah-Manu, C. Asebi, F. Patafuor, D. Ofori-Adjei, T. Junghanss and G. Pluschke*

199 *Plasmodium falciparum* from Pará state (Brazil) shows satisfactory in vitro response to artemisinin derivatives and absence of the S769N mutation in the SERCA-type *PfATPase6 I.D. Ferreira, A. Martinelli, L.A. Rodrigues, E.L. do Carmo, V.E. do Rosário, M.M. Póvoa and P. Cravo*

208 Access and barriers to measures targeted to prevent malaria in pregnancy in rural Kenya *P.W. Gikandi, A.M. Noor, C.W. Gitonga, A.A. Ajanga and R.W. Snow*

218 Effectiveness of malaria control during changing climate conditions in Eritrea, 1998–2003 *P.M. Graves, D.E. Osgood, M.C. Thomson, K. Sereke, A. Araia, M. Zerom, P. Ceccato, M. Bell, J. del Corral, S. Ghebreselassie, E.P. Brantly and T. Ghebremeskel*

229 Do antibody responses to malaria vaccine candidates influenced by the level of malaria transmission protect from malaria? *I. Nebie, A.B. Tiono, D.A. Diallo, S. Samandoulougou, A. Diarra, A.T. Konate, N. Cuzin-Ouattara, M. Theisen, G. Corradin, S. Cousens, A.S. Ouattara, E. Ilboudo-Sanogo and B.S. Sirima*

238 Short Communication: Chloroquine-resistance molecular markers (*Pfcrt* T76 and *Pfmdr-1* Y86) and amodiaquine resistance in Burkina Faso *H. Tinto, L. Guekoun, I. Zongo, R.T. Guiguemdé, U. D'Alessandro and J.B. Ouédraogo*

241 Future prevalence of WHO grade 2 impairment in relation to incidence trends in leprosy: an exploration *A. Meima, N.H.J. van Veen and J.H. Richardus*

247 A simple approach to test for interaction between intervention and an individual-level variable in community randomized trials *Y.B. Cheung, D. Jeffries, A. Thomson and P. Milligan*

256 The northward spread of leishmaniasis in Italy: evidence from retrospective and ongoing studies on the canine reservoir and phlebotomine vectors *M. Maroli, L. Rossi, R. Baldelli, G. Capelli, E. Ferroglio, C. Genchi, M. Gramiccia, M. Mortarino, M. Pietrobelli and L. Gradoni*

265 Eflornithine is a cost-effective alternative to melarsoprol for the treatment of second-stage human West African trypanosomiasis in Caxito, Angola *J. Robays, M.E. Raguenaud, T. Josenando and M. Boelaert*

272 Validity of non-invasive assessment of anaemia in pregnancy *P. Bergsjø, B. Evjen-Olsen, S.G. Hinderaker, N. OleKing'ori and K.-I. Klepp*

278 Comparing the performance of indicators of handwashing practices in rural Indian households *A. Biran, T. Rabie, W. Schmidt, S. Juvekar, S. Hirve and V. Curtis*

286 Desiccated vector mosquitoes used for the surveillance of Japanese encephalitis virus activity in endemic southern India *S.C. Tewari, V. Thenmozhi, N. Arunachalam, P. Philip Samuel and B.K. Tyagi*

Issue 3, March 2008

291 Feature page
292 Editorial: Eliminating lymphatic filariasis - the surveillance challenge *C. Huppatz, D. Durrheim, P. Lammie, P. Kelly and W. Melrose*
295 Relapses *vs.* reactions in multibacillary leprosy: proposal of new relapse criteria *K. Linder, M. Zia, W.V. Kern, R.K.M. Pfau and D. Wagner*
310 Diversity of risk of mother-to-child HIV-1 transmission according to feeding practices, CD4 cell count, and haemoglobin concentration in a South African cohort *M. Tournoud, R. Ecochard, L. Kuhn and A. Coutsoudis*
319 Uptake of HIV voluntary counselling and testing services in rural Tanzania: implications for effective HIV prevention and equitable access to treatment *A. Wringe, R. Isingo, M. Urassa, G. Maiseli, R. Manyalla, J. Changalucha, J. Mngara, S. Kalluvya and B. Zaba*
328 Defaulters from antiretroviral treatment in Jimma University Specialized Hospital, Southwest Ethiopia *K. Deribe, F. Hailekiros, S. Biadgilign, A. Amberbir and B.K. Beyene*
334 Review: Sleeping sickness in West Africa (1906-2006): changes in spatial repartition and lessons from the past *F. Courtin, V. Jamonneau, G. Duvallet, A. Garcia, B. Coulibaly, J.P. Doumenge, G. Cuny and P. Solano*
345 Nutritional status and common infections in infants in Burkina Faso: interest of an 'overall morbidity score' *S. Sawadogo, S. Prosper, Y. Martin-Prével, G. Capon, S.A. Traoré and F. Delpeuch*
354 Use of proxy measures in estimating socioeconomic inequalities in malaria prevalence *M.F. Somi, J.R. Butler, F. Vahid, J.D. Njau, S.P. Kachur and S. Abdulla*
365 Setting up a national reference laboratory for Buruli ulcer: the case of Benin *D. Affolabi, B. Tanimomo-Kledjo, G. Anyo, R.C. Johnson, S.Y. Anagonou and F. Portaels*
369 Systematic Review: Primary health care supervision in developing countries *X. Bosch-Capblanch and P. Garner*
384 Socio-cultural, psychosexual and biomedical factors associated with genital symptoms experienced by men in rural India *M. Gautham, R. Singh, H. Weiss, R. Brugha, V. Patel, N.G. Desai, D. Nandan, K. Kielmann and H. Grosskurth*
396 Assessing the validity of health facility-based data on insecticide-treated bednet possession and use: comparison of data collected via health facility and household surveys–Lindi region and Rufiji district, Tanzania, 2005 *J. Skarbinski, C.A. Winston, J.J. Massaga, S.P. Kachur and A.K. Rowe*
406 Short Communication: End-user errors in applying two malaria rapid diagnostic tests in a remote area of Sudan *O.M.E. Seidahmed, M.M.N. Mohamedein, A.A. Elsir, F.T. Ali, E.F.M. Malik and E.S. Ahmed*
410 Changing pattern of malaria in Bissau, Guinea Bissau *A. Rodrigues, J.A. Schellenberg, P.-E. Kofoed, P. Aaby and B. Greenwood*
418 Clinical diagnosis of malaria and the risk of chloroquine self-medication in rural health centres in Burkina Faso *K. Pfeiffer, F. Some, O. Müller, A. Sie, B. Kouyaté, W.E. Haefeli, A. Zoungrana, L.L. Gustafsson, G. Tomson and R. Sauerborn*
427 Short Communication: Low carriage rate of group B streptococcus in pregnant women in Maputo, Mozambique *F.D.O. de Steenwinkel, H.V. Tak, A.E. Muller, J.L. Nouwen, P.M. Oostvogel and S.M. Mocumbi*
430 Short Communication: Knockdown resistance mutations (*kdr*) and insecticide susceptibility to DDT and pyrethroids in *Anopheles gambiae* from Equatorial Guinea *M. Moreno, J.L. Vicente, J. Cano, P.J. Berzosa, A. de Lucio, S. Nzambo, L. Bobuakasi, J.N. Buatiche, M. Ondo, F. Micha, V.E. Do Rosario, J. Pinto and A. Benito*
434 Antibiotic use and health-seeking behaviour in an underprivileged area of Perú *C. Kristiansson, M. Reilly, E. Gotuzzo, H. Rodriguez, A. Bartoloni, A. Thorson, T. Falkenberg, F. Bartalesi, G. Tomson and M. Larsson*

Issue 4, April 2008

443 Feature page
444 Editorial: Debating the quality and performance of health systems at a global level is not enough, national debates are essential for progress *S. Ntoburi, J. Wagai, G. Irimu and M. English*

448 Urban living and obesity: is it independent of its population and lifestyle characteristics? *C. Arambepola, S. Allender, R. Ekanayake and D. Fernando*
458 Age patterns in undernutrition and helminth infection in a rural area of Brazil: associations with ascariasis and hookworm *A. Jardim-Botelho, S. Brooker, S.M. Geiger, F. Fleming, A.C. S. Lopes, D.J. Diemert, R. Corrêa-Oliveira and J.M. Bethony*
468 Short Communication: Distribution and antibiotic susceptibility of *Shigella* isolates in Bangui, Central African Republic *R. Bercion, S.P. Njuimo, P.M. Boudjeka and A. Manirakiza*
472 Short Communication: *Cryptosporidium* and *Giardia* infection and drinking water sources among children in Lege Dini, Ethiopia *D. Ayalew, E. Boelee, T. Endeshaw and B. Petros*
476 Dynamics of insecticide resistance in the malaria vector *Anopheles gambiae s.l.* from an area of extensive cotton cultivation in Northern Cameroon *M. Chouaïbou, J. Etang, T. Brévault, P. Nwane, C.K. Hinzoumbé, R. Mimpfoundi and F. Simard*
487 The use of artemether-lumefantrine by febrile children following national implementation of a revised drug policy in Kenya *C.W. Gitonga, A.A. Amin, A. Ajanga, B.B. Kangwana, A.M. Noor and R.W. Snow*
495 *Haemophilus influenzae* type b conjugate vaccine is highly effective in the Ugandan routine immunization program: a case–control study *E.H.-J. Lee, R.F. Lewis, I. Makumbi, A. Kekitiinwa, T.D. Ediamu, M. Bazibu, F. Braka, B. Flannery, P.L. Zuber and D.R. Feikin*
503 Detection and modelling of case clusters for urban leptospirosis *W.S. Tassinari, D.C.P. Pellegrini, C.B.P. Sá, R.B. Reis, A.I. Ko and M.S. Carvalho*
513 Increased mortality of male adults with AIDS related to poor compliance to antiretroviral therapy in Malawi *S.C.-C. Chen, J.K.-L. Yu, A.D. Harries, C.-N. Bong, R. Kolola-Dzimadzi, T.-S. Tok, C.-C. King and J.-D. Wang*
520 The long-term social and economic impact of HIV on the spouses of infected individuals in northern Malawi *S. Floyd, A.C. Crampin, J.R. Glynn, M. Mwenebabu, S. Mnkhondia, B. Ngwira, B. Zaba and P.E.M. Fine*
532 Viewpoint: Typhoid fever in children in Africa *E. Mweu and M. English*
541 The effect of user fees on prescribing quality in rural Nepal: two controlled pre-post studies to compare a fee per drug unit *vs.* a fee per drug item *K.A. Holloway, S. Karkee, A. Tamang, Y.B. Gurung, R. Pradhan and B.C. Reeves*
548 Characterization of knockdown resistance in DDT- and pyrethroid-resistant *Culex quinquefasciatus* populations from Sri Lanka *C.S. Wondji, W.A.P. Priyanka De Silva, J. Hemingway, H. Ranson and S.H.P. Parakrama Karunaratne*
556 Risk factors for active trachoma and *Chlamydia trachomatis* infection in rural Ethiopia after mass treatment with azithromycin *T. Edwards, E.M. Harding-Esch, G. Hailu, A. Andreason, D.C. Mabey, J. Todd and P. Cumberland*
566 Could clinical audit improve the diagnosis of pulmonary tuberculosis in Cuba, Peru and Bolivia? *K. Siddiqi, A. Volz, L. Armas, L. Otero, R. Ugaz, E. Ochoa, E. Gotuzzo, F. Torrico, J.N. Newell, J. Walley, M. Robinson, G. Dieltiens and P. Van der Stuyft*
579 Viewpoint: The neglected 'm' in MCH programmes – why mental health of mothers is important for child nutrition *A. Rahman, V. Patel, J. Maselko and B. Kirkwood*
584 Phylogeny of dengue viruses circulating in Jeddah, Saudi Arabia: 1994 to 2006 *A. Zaki, D. Perera, S.S. Jahan and M.J. Cardosa*

Issue 5, May 2008

593 Feature page
594 International open trial of uniform multi-drug therapy regimen for 6 months for all types of leprosy patients: rationale, design and preliminary results *A. Kroger, V. Pannikar, M.T. Htoon, A. Jamesh, K. Katoch, P. Krishnamurthy, K. Ramalingam, S. Jianping, V. Jadhav, M.D. Gupte and P. Manickam*
603 C-reactive protein and procalcitonin in the evaluation of the efficacy of a pneumococcal conjugate vaccine in Gambian children *Y.-B. Cheung, S.M.A. Zaman, M.-L. Ruopuro, G. Enwere, R.A. Adegbola, B. Greenwood and F.T. Cutts*
612 Laboratory reference values for healthy adults from southern Tanzania *E. Saathoff, P. Schneider, V. Kleinfeldt, S. Geis, D. Haule, L. Maboko, E. Samky, M. de Souza, M. Robb and M. Hoelscher*
626 Very young children with uncomplicated falciparum malaria have higher risk of hypoglycaemia: a study from Suriname *W.C.W.R. Zijlmans, A.A.M.W. van Kempen, M.T. Ackermans, J. de Metz, P.A. Kager and H.P. Sauerwein*

635 High efficacy of two artemisinin-based combinations (artemether–lumefantrine and artesunate plus amodiaquine) for acute uncomplicated malaria in Ibadan, Nigeria *C.O. Falade, A.O. Ogundele, B.O. Yusuf, O.G. Ademowo and S.M. Ladipo*

644 Experimental hut evaluation of the pyrrole insecticide chlorfenapyr on bed nets for the control of *Anopheles arabiensis* and *Culex quinquefasciatus F.W. Mosha, I.N. Lyimo, R.M. Oxborough, R. Malima, F. Tenu, J. Matowo, E. Feston, R. Mndeme, S.M. Magesa and M. Rowland*

653 Interpretation of mycobacterial antibodies in the cerebrospinal fluid of adults with tuberculous meningitis *B.I. Restrepo, P.A. Pino, M. Volcy, A.F. Franco, G.V. Kanaujia and J. Robledo*

659 Effectiveness of interventions for the prevention of HIV and other sexually transmitted infections in female sex workers in resource poor setting: a systematic review *M. Shahmanesh, V. Patel, D. Mabey and F. Cowan*

680 Uptake of HIV and syphilis testing of pregnant women and their male partners in a programme for prevention of mother-to-child HIV transmission in Uganda *D. Kizito, P.W. Woodburn, B. Kesande, C. Ameke, J. Nabulime, M. Muwanga, H. Grosskurth and A.M. Elliott*

683 Is HIV infection associated with an increased risk for cholera? Findings from a case–control study in Mozambique *L. von Seidlein, X.-Y. Wang, A. Macuamule, C. Mondlane, M. Puri, I. Hendriksen, J.L. Deen, C.-L. Chaignat, J.D. Clemens, M. Ansaruzzaman, A. Barreto, F.F. Songane and M. Lucas*

689 Operational lessons from 20 years of the Mectizan Donation Program for the control of onchocerciasis *B. Thylefors, M.M. Alleman and N.A.Y. Twum-Danso*

697 Human and porcine neurocysticercosis: differences in the distribution and developmental stages of cysticerci *B. Sáenz, J. Ramírez, A. Aluja, A. Escobar, G. Fragoso, J. Morales, R. Pérez-Tamayo, F. Rosetti, C. Larralde, E. Sciutto and A. Fleury*

703 Timing of default from tuberculosis treatment: a systematic review *M.E. Kruk, N.R. Schwalbe and C.A. Aguiar*

713 Age and gender effects in self-reported urinary schistosomiasis in Tanzania *A.C.A. Clements, A.G. Barnett, U. Nyandindi, N.J.S. Lwambo, C.M. Kihamia and L. Blair*

722 Clonal heterogeneity of clinical isolates of vancomycin-resistant *Enterococcus faecium* with unique *vanS* *M.R. Pourshafie, M. Talebi, M. Saifi, M. Katouli, S. Eshraghi, I. Kühn and R. Möllby*

728 The unbearable lightness of technocratic efforts at dengue control *M.E. Toledo, A. Baly, V. Vanlerberghe, M. Rodríguez, J.R. Benitez, J. Duvergel and P. Van der Stuyft*

737 Impact of seven rounds of mass administration of diethylcarbamazine and ivermectin on prevalence of chronic lymphatic filariasis in south India *J. Yuvaraj, S.P. Pani, P. Vanamail, K.D. Ramaiah and P.K. Das*

Issue 6, June 2008

743 Feature page

744 Noble goals, unforeseen consequences: control of tropical diseases in colonial Central Africa and the iatrogenic transmission of blood-borne viruses *J. Pépin and A.-C. Labbé*

754 Case–control study of risk factors associated with hepatitis C virus infection among pregnant women in hospitals of Karachi-Pakistan *U.R. Khan, N.Z. Janjua, S. Akhtar and J. Hatcher*

762 Who develops severe malaria? Impact of access to healthcare, socio-economic and environmental factors on children in Yemen: a case-control study *A. Al-Taiar, S. Jaffar, A. Assabri, M. Al-Habori, A. Azazy, A. Al-Gabri, M. Al-Ganadi, B. Attal and C.J.M. Whitty*

771 Estimates of the burden of malaria morbidity in Africa in children under the age of 5years *A. Roca-Feltrer, I. Carneiro and J.R.M.A. Schellenberg*

784 Short Communication: Effects of revised diagnostic recommendations on malaria treatment practices across age groups in Kenya *D. Zurovac, J. Njogu, W. Akhwale, D.H. Hamer, B.A. Larson and R.W. Snow*

788 Anaemia in a rural Ugandan HIV cohort: prevalence at enrolment, incidence, diagnosis and associated factors *J.O. Mugisha, L.A. Shafer, L.V. der Paal, B.N. Mayanja, H. Eotu, P. Hughes, J.A.G. Whitworth and H. Grosskurth*

795 Integrating research into routine service delivery in an antiretroviral treatment programme: lessons learnt from a cluster randomized trial comparing strategies of HIV care in Jinja, Uganda *S. Jaffar, B. Amuron, J. Birungi, G. Namara, C. Nabiryo, A. Coutinho and H. Grosskurth*

801 Randomized controlled trial to investigate impact of site-based safer sex programmes in Kingston, Jamaica: trial design, methods and baseline findings *S.S. Weir, J.P. Figueroa, L. Byfield, A. Hall, S. Cummings and C. Suchindran*

814 Short Communication: High HIV risk among Uigur minority ethnic drug users in northwestern China *L. Zhang, J. Zhu, B. Rui, Y. Zhang, L. Zhang, L. Yin, Y. Ruan, H.-Z. Qian and Y. Shao*

818 Invasive *Haemophilus influenzae* disease in children less than 5 years of age in Manhiça, a rural area of southern Mozambique *A. Roca, L. Quintó, F. Abacassamo, L. Morais, X. Vallès, M. Espasa, B. Sigaúque, J. Sacarlal, E. Macete, A. Nhacolo, I. Mandomando, M.M. Levine and P.L. Alonso*

827 Insecticide-treated net ownership and usage in Niger after a nationwide integrated campaign *J. Thwing, N. Hochberg, J.V. Eng, S. Issifi, M. James Eliades, E. Minkoulou, A. Wolkon, H. Gado, O. Ibrahim, R.D. Newman and M. Lama*

835 Associations among handwashing indicators, wealth, and symptoms of childhood respiratory illness in urban Bangladesh *S.P. Luby and A.K. Halder*

845 Short Communication: Accidental paraffin poisoning in Kenyan children *T. Lang, N. Thuo and S. Akech*

848 *Helicobacter pylori* isolates recovered from gastric biopsies of patients with gastro-duodenal pathologies in Cameroon: current status of antibiogram *R.N. Ndip, A.E. Malange Takang, J.E.A. Ojongokpoko, H.N. Luma, A. Malongue, J.-F.T.K. Akoachere, L.M. Ndip, M. MacMillan and L.T. Weaver*

855 Cutaneous leishmaniasis in the Jordanian side of the Jordan Valley: severe under-reporting and consequences on public health management *I.M. Mosleh, E. Geith, L. Natsheh, M. Abdul-Dayem and N. Abotteen*

861 ST2859 serogroup A meningococcal meningitis outbreak in Nouna Health District, Burkina Faso: a prospective study *A. Sié, V. Pflüger, B. Coulibaly, J.P. Dangy, A. Kapaun, T. Junghanss, G. Pluschke and J. Leimkugel*

Issue 7, July 2008

869 Feature page

870 Antiretroviral therapy in resource-limited settings 1996 to 2006: patient characteristics, treatment regimens and monitoring in sub-Saharan Africa, Asia and Latin America *The ART-LINC Collaboration of the International Databases to Evaluate AIDS (leDEA)*

880 Paediatric HIV and neurodevelopment in sub-Saharan Africa: a systematic review *A. Abubakar, A. Van Baar, F.J.R. Van de Vijver, P. Holding and C.R.J.C. Newton*

888 Optimizing antibiotic usage in adults admitted with fever by a multifaceted intervention in an Indonesian governmental hospital *U. Hadi, M. Keuter, H. van Asten and P. van den Broek on behalf of the study group 'Antimicrobial resistance in Indonesia: Prevalance and Prevention' (AMRIN)*

900 HIV serological screening in a population of pregnant women in the Republic of Congo: suitability of different assays *B. Bruzzone, F. Bisio, A. Ventura, N. Nigro, L.M. Miguel, F.A.M. Mboungou, A.C. Nzagou, P. Mayembo, F. Uberti, A. De Maria, G. Icardi and C. Viscoli*

904 Barriers to access to antiretroviral treatment in developing countries: a review *M. Posse, F. Meheus, H. van Asten, A. van der Ven and R. Baltussen*

914 Factors associated with increased risk of progression to respiratory syncytial virus-associated pneumonia in young Kenyan children *E.A. Okiro, M. Ngama, A. Bett, P.A. Cane, G.F. Medley and D.J. Nokes*

927 Treatment seeking for symptoms suggestive of TB: comparison between migrants and permanent urban residents in Chongqing, China *Y. Wang, Q. Long, Q. Liu, R. Tolhurst and S. Tang*

934 Estimates of the economic burden of rotavirus-associated and all-cause diarrhoea in Vellore, India *A.S. Mendelsohn, J.R. Asirvatham, D.M. Mwamburi, T.V. Sowmynarayanan, V. Malik, J. Muliyil and G. Kang*

943 Predictive indicators for Ross River virus infection in the Darwin area of tropical northern Australia, using long-term mosquito trapping data *S.P. Jacups, P.I. Whelan, P.G. Markey, S.J. Cleland, G.J. Williamson and B.J. Currie*

953 Long-lasting insecticidal nets fail at household level to reduce abundance of sandfly vector *Phlebotomus argentipes* in treated houses in Bihar (India) *D.S. Dinesh, P. Das, A. Picado, C. Davies, N. Speybroeck, B. Ostyn, M. Boelaert and M. Coosemans*

959 Letters to the Editors

Issue 8, August 2008

961 Feature page

962 Integration of comprehensive abortion-care services in a Maternal and Child Health clinic in Cambodia *T. Delvaux, S. Sœur, T. Rathavy, F. Crabbé and A. Buvé*

970 Quality of antenatal and delivery care before and after the implementation of a prevention of mother-to-child HIV transmission programme in Côte d'Ivoire *T. Delvaux, J.-P. D. Konan, O. Aké-Tano, V. Gohou-Kouassi, P.E. Bosso, A. Buvé and C. Ronsmans*

980 Hypothermia of newborns is associated with excess mortality in the first 2 months of life in Guinea-Bissau, West Africa *M. Sodemann, J. Nielsen, J. Veirum, M.S. Jakobsen, S. Biai and P. Aaby*

987 Comparison of four statistical approaches to score child development: a study of Malawian children *Y.-B. Cheung, M. Gladstone, K. Maleta, X. Duan and P. Ashorn*

994 Hookworm, *Ascaris lumbricoides* infection and polyparasitism associated with poor cognitive performance in Brazilian schoolchildren *A. Jardim-Botelho, S. Raff, R. de Ávila Rodrigues, H.J. Hoffman, D.J. Diemert, R. Corrêa-Oliveira, J.M. Bethony and M.F. Gazzinelli*

1005 The outcomes and outpatient costs of different models of antiretroviral treatment delivery in South Africa *S. Rosen, L. Long and I. Sanne*

1016 Malaria in pregnancy in an area of stable and intense transmission: is it asymptomatic? *H. Tagbor, J. Bruce, E. Browne, B. Greenwood and D. Chandramohan*

1022 Systematic Review: What does dengue disease surveillance contribute to predicting and detecting outbreaks and describing trends? *S. Runge-Ranzinger, O. Horstick, M. Marx and A. Kroeger*

1042 Sensitivity and specificity of an index for the diagnosis of TB meningitis in patients in an urban teaching hospital in Malawi *A.M. Checkley, Y. Njalale, M. Scarborough and E.E. Zijlstra*

1047 Prevalence of epilepsy in Rwanda: a national cross-sectional survey *V. Simms, O. Atijosan, H. Kuper, A. Nuhu, D. Rischewski and C. Lavy*

1054 Circumcision among adolescent boys in rural northwestern Tanzania *H.A. Weiss, M.L. Plummer, J. Changalucha, G. Mshana, Z.S. Shigongo, J. Todd, D. Wight, R.J. Hayes and D.A. Ross*

1062 Review: Substandard medicines in resource-poor settings: a problem that can no longer be ignored *J.-M. Caudron, N. Ford, M. Henkens, C. Macé, R. Kiddle-Monroe and J. Pinel*

1073 Vector control by insecticide-treated nets in the fight against visceral leishmaniasis in the Indian subcontinent, what is the evidence? *B. Ostyn, V. Vanlerberghe, A. Picado, D.S. Dinesh, S. Sundar, F. Chappuis, S. Rijal, J.-C. Dujardin, M. Coosemans, M. Boelaert and C. Davies*

1086 Serological prevalence of echinococcosis and risk factors for infection among children in rural communities of southern Ningxia, China *Y.R. Yang, P.S. Craig, D.A. Vuitton, G.M. Williams, T. Sun, T.X. Liu, B. Boufana, P. Giraudoux, J. Teng, Y. Li, L. Huang, W. Zhang, M.K. Jones and D.P. McManus*

Issue 9, September 2008

1095 Feature page

1096 Editorial: Adherence to antiretroviral therapy in Africa: how high is it really? *S. Jaffar, P. Munderi and H. Grosskurth*

1098 Major Review: Vertically acquired paediatric HIV infection: the challenges of providing comprehensive packages of care in resource-limited settings *K.E. Little, R.M. Bland and M.L. Newell*

1111 Major Review: Therapy of uncomplicated malaria in children: a review of treatment principles, essential drugs and current recommendations *J.L. Deen, L. von Seidlein and A. Dondorp*

1131 The importance of context in malaria diagnosis and treatment decisions - a quantitative analysis of observed clinical encounters in Tanzania *C.I.R. Chandler, S. Chonya, G. Boniface, K. Juma, H. Reyburn and C.J.M. Whitty*

1143 Pharmacovigilance of antimalarial treatment in Uganda: community perceptions and suggestions for reporting adverse events *H. Bukirwa, S. Nayiga, R. Lubanga, N. Mwebaza, C. Chandler, H. Hopkins, A.O. Talisuna and S.G. Staedke*

1153 Pharmacovigilance through consumer feedback (reporting) in the mass treatment of lymphatic filariasis using diethylcarbamazine and albendazole in two districts of Sri Lanka *S. Gunawardena, S.S. Ranganathan and R. Fernandopulle*

1159 Nested PCRs and sequencing of nuclear ITS-rDNA fragments detect three *Leishmania* species of gerbils in sandflies from Iranian foci of zoonotic cutaneous leishmaniasis *P. Parvizi and P.D. Ready*

1172 Envenoming after carpet viper (*Echis ocellatus*) bite during pregnancy: timely use of effective antivenom improves maternal and foetal outcomes *A.G. Habib, S.B. Abubakar, I.S. Abubakar, S. Larnyang, N. Durfa, A. Nasidi, P.O. Yusuf, J. Garnvwa, R.D.G. Theakston, L. Salako, D.A. Warrell and and for the EchiTab Study Group (Nigeria, UK)*

1176 Short Communication: Introduction of *Aedes albopictus* in Gabon: what consequences for dengue and chikungunya transmission? *M. Vazeille, S. Moutailler, F. Pages, F. Jarjaval and A.-B. Failloux*

1180 Dynamics of dengue epidemics in urban contexts *P. Pongsumpun, D. G. Lopez, C. Favier, L. Torres, J. Llosa and M.A. Dubois*
1188 Assessing debt-to-health swaps: a case study on the Global Fund Debt2Health Conversion Scheme *D. Cassimon, R. Renard and K. Verbeke*
1196 After a decade of annual dose mass ivermectin treatment in Cameroon and Uganda, onchocerciasis transmission continues *M. Katabarwa, A. Eyamba, P. Habomugisha, T. Lakwo, S. Ekobo, J. Kamgno, T. Kuete, R. Ndyomugyenyi, A. Onapa, M. Salifou, M. Ntep and F.O. Richards*
1204 Drug-resistant TB and HIV in resource-limited settings: what TB/HIV programmes can learn from each other *R. Colebunders, W. Worodria, E. Jones-López, M. Joloba, L. Apers and J. Ellner*
1208 Safety of a pre-formulated amphotericin B lipid emulsion for the treatment of Indian Kala-azar *S. Sundar, J. Chakravarty, D. Agarwal, A. Shah, N. Agrawal and M. Rai*
1213 Inter-observer variation in paediatric clinical signs between different grades of staff examining children admitted to hospital in Tanzania *B. Nadjm, B. Jeffs, G. Mtove, W. Msuya, L. Mndeme, F. Mtei, S. Chonya and H. Reyburn*

Issue 10, October 2008

1221 Feature page
1222 Editorial: Universal access to HIV care: pitfalls and the way forward *I. De Ryck, O. Koole, R. Wanyenze and R. Colebunders*
1225 Major Review: Non-communicable diseases in low- and middle-income countries: context, determinants and health policy *J.J. Miranda, S. Kinra, J.P. Casas, G. Davey Smith and S. Ebrahim*
1235 The Regai Dzive Shiri Project: a cluster randomised controlled trial to determine the effectiveness of a multi-component community-based HIV prevention intervention for rural youth in Zimbabwe – study design and baseline results *F.M. Cowan, S.J.S. Pascoe, L.F. Langhaug, J. Dirawo, S. Chidiya, S. Jaffar, M. Mbizvo, J.M. Stephenson, A.M. Johnson, R.M. Power, G. Woelk and R.J. Hayes*
1245 Recurrent costs of HIV/AIDS-related health services in Rwanda: implications for financing *W. Quentin, H.-H. König, J.-O. Schmidt and A. Kalk*
1257 Effect of iron or multiple micronutrient supplements on the prevalence of anaemia among anaemic young children of a malaria-endemic area: a randomized double-blind trial *H.Z. Ouédraogo, M. Dramaix-Wilmet, A.N. Zeba, P. Hennart and P. Donnen*
1267 Haemoglobin adjustments to define anaemia *K.M. Sullivan, Z. Mei, L. Grummer-Strawn and I. Parvanta*
1272 Drug regimens for visceral leishmaniasis in Mediterranean countries *L. Gradoni, K. Soteriadou, H. Louzir, A. Dakkak, S.O. Toz, C. Jaffe, J.-P. Dedet, L. Campino, C. Cañavate and J.-C. Dujardin*
1277 Development and testing of a *de novo* clinical staging system for podoconiosis (endemic non-filarial elephantiasis) *F. Tekola, Z. Ayele, D.H. Mariam, C. Fuller and G. Davey*
1284 Can VISION 2020 be implemented in rural government settings? Findings from two programmes in Tanzania *E. Eliah, A. Shayo, C. Gendo, P. Courtright, M. Theraney and S. Lewallen*
1288 TB, HIV-associated TB and multidrug-resistant TB on Thailand's border with Myanmar, 2006–2007 *P. Hemhongsa, T. Tasaneeyapan, W. Swaddiwudhipong, J. Danyuttapolchai, K. Pisuttakoon, S. Rienthong, K. McCarthy, M.J. Varma, J. Whitmore and J.K. Varma*
1297 Effectiveness of an alcohol-based hand hygiene programme in reducing nosocomial infections in the Urology Ward of Binh Dan Hospital, Vietnam *K.V. Nguyen, P.T.M. Nguyen and S.L. Jones*
1303 Use of insecticide treated nets by pregnant women and associated factors in a pre-dominantly rural population in northern Ethiopia *M. Belay and W. Deressa*
1314 Causes of deaths using verbal autopsy among adolescents and adults in rural western Kenya *A.M. van Eijk, K. Adazu, P. Ofware, J. Vulule, M. Hamel and L. Slutsker*
1325 Letter to the Editor
1326 Corrigendum

Issue 11, November 2008

1327 Feature page
1328 Systematic Review: Clinical and laboratory features that distinguish dengue from other febrile illnesses in endemic populations *J.A. Potts and A.L. Rothman*
1341 Individual, household and community factors associated with HIV test refusal in rural Malawi *K. Kranzer, N. McGrath, J. Saul, A.C. Crampin, A. Jahn, S. Malema, D. Mulawa, P.E.M. Fine, B. Zaba and J.R. Glynn*
1351 Correlates of HIV testing among women in Malawi: results from the 2006 Multiple Indicator Cluster Survey *S. Siziya, A.S. Muula, E. Rudatsikira and R.H. Mataya*
1357 Changing roles and responses of health care workers in HIV treatment and care *D. Rajaraman and N. Palmer*

1364 Management of pulmonary tuberculosis in Tajikistan: which factors determine hospitalization? *C. Thierfelder, K. Makowiecka, T. Vinichenko, R. Ayé, P. Edwards and K. Wyss*

1372 Annual risk of tuberculosis infection among tribal population of central India *V.G. Rao, P.G. Gopi, R. Yadav, R. Subramani, J. Bhat, A.R. Anvikar, K. Sadacharam, B.K. Tiwari, V. Gadge, M.K. Bhondeley, G.P. Shukla, M. Ukey, S. Jain and D.F. Wares*

1378 Diagnostic accuracy of a new *Leishmania* PCR for clinical visceral leishmaniasis in Nepal and its role in diagnosis of disease *S. Deborggraeve, M. Boelaert, S. Rijal, S. De Doncker, J.-C. Dujardin, P. Herdewijn and P. Büscher*

1384 *dhfr* and *dhps* genotype and sulfadoxine-pyrimethamine treatment failure in children with falciparum malaria in the Democratic Republic of Congo *A.P. Alker, W.M. Kazadi, A.K. Kutelemeni, P.B. Bloland, A.K. Tshefu and S.R. Meshnick*

1392 Analysis of circulating populations of *Plasmodium falciparum* in mild and severe malaria in two different epidemiological patterns in Madagascar *R. Durand, F. Ariey, S. Cojean, A. Fontanet, L. Ranaivo, L.-A. Ranarivelo, J.A. Vonimpaisomihanta, D. Menard, V. Pietra, J. Le Bras, D. Modiano and M. Randrianarivelojosia*

1400 Detection of raised intracranial pressure by ultrasound measurement of optic nerve sheath diameter in African children *N.A.V. Beare, S. Kampondeni, S.J. Glover, E. Molyneux, T.E. Taylor, S.P. Harding and M.E. Molyneux*

1405 The impact of Mexico's conditional cash transfer programme, *Oportunidades*, on birthweight *S.L. Barber and P.J. Gertler*

1415 *Cyclospora* spp. in herbs and water samples collected from markets and farms in Hanoi, Vietnam *N.T. Tram, L.M.N. Hoang, P.D. Cam, P.T. Chung, M.W. Fyfe, J.L. Isaac-Renton and C.S.L. Ong*

1421 Direct observation of hygiene in a Peruvian shantytown: not enough handwashing and too little water *W.E. Oswald, G.C. Hunter, A.G. Lescano, L. Cabrera, E. Leontsini, W.K. Pan, V.P. Soldan and R.H. Gilman*

Issue 12, December 2008

1429 Feature page

1430 Viewpoint: Programme activities: a major burden for district health systems? *Y. Coulibaly, A. Cavalli, M. van Dormael, K. Polman and G. Kegels*

1433 Employment preferences of public sector nurses in Malawi: results from a discrete choice experiment *L.J. Mangham and K. Hanson*

1442 User fee exemptions are not enough: out-of-pocket payments for 'free' delivery services in rural Tanzania *M.E. Kruk, G. Mbaruku, P.C. Rockers and S. Galea*

1452 Antiretroviral treatment and the health workforce in South Africa: how have ART workers been affected by scaling up? *P. Tobi, G. George, E. Schmidt and A. Renton*

1459 Making a working clinical diagnosis of HIV infection in infants in Zimbabwe *P. Iliff, R. Ntozini, K. Nathoo, E. Piwoz, L. Moulton, The ZVITAMBO Study Group and J. Humphrey*

1470 Determinants of unplanned antiretroviral treatment interruptions among people living with HIV in Yaoundé, Cameroon (EVAL survey, ANRS 12-116) *F. Marcellin, S. Boyer, C. Protopopescu, A. Dia, P. Ongolo-Zogo, S. Koulla-Shiro, S.-C. Abega, C. Abé, J.-P. Moatti, B. Spire, M.P. Carrieri and the EVAL Study Group*

1479 A significant increase in *kdr* in *Anopheles gambiae* is associated with an intensive vector control intervention in Burundi highlands *N. Protopopoff, K. Verhaeghen, W. Van Bortel, P. Roelants, T. Marcotty, D. Baza, U. D'Alessandro and M. Coosemans*

1488 Occurrence, productivity and spatial distribution of key-premises in two dengue-endemic areas of Rio de Janeiro and their role in adult *Aedes aegypti* spatial infestation pattern *R. Maciel-de-Freitas, R.C. Peres, R. Souza-Santos and R. Lourenço-de-Oliveira*

1495 Evaluation of a rapid diagnostic test specific for *Plasmodium vivax S.H. Kim, M.-H. Nam, K.H. Roh, H.C. Park, D.H. Nam, G.H. Park, E.T. Han, T.A. Klein and C.S. Lim*

1501 Modelling of malaria temporal variations in Iran *A.-A. Haghdoost, N. Alexander and J. Cox*

1509 Female genital schistosomiasis – a differential diagnosis to sexually transmitted disease: genital itch and vaginal discharge as indicators of genital *Schistosoma haematobium* morbidity in a cross-sectional study in endemic rural Zimbabwe *E.F. Kjetland, E.N. Kurewa, P.D. Ndhlovu, N. Midzi, L. Gwanzura, P.R. Mason, E. Gomo, L. Sandvik, T. Mduluza, H. Friis and S.G. Gundersen*

1518 National survey of the health and nutrition of schoolchildren in Ethiopia *A. Hall, T. Kassa, T. Demissie, T. Degefie and S. Lee*

1527 Inconclusive results in conventional serological screening for Chagas' disease in blood banks: evaluation of cellular and humoral response *C.R. Furuchó, E.S. Umezawa, I. Almeida, V.L. Freitas, R. Bezerra,*

E.V. Nunes, M.C. Sanches, C.M. Guastini, A.R. Teixeira and M.A. Shikanai-Yasuda

1534 Post-partum depression in Kinshasa, Democratic Republic of Congo: Validation of a concept using a mixed-methods cross-cultural approach *J.K. Bass, R.W. Ryder, M.-C. Lammers, T.N. Mukaba and P.A. Bolton*

1543 Association of respiratory tract infection symptoms and air humidity with meningococcal carriage in Burkina Faso *J.E. Mueller, S. Yaro, Y. Madec, P.K. Somda, R.S. Idohou, B.-M. Njanpop Lafourcade, A. Drabo, Z. Tarnagda, L. Sangaré, Y. Traoré, A. Fontanet and B.D. Gessner*